

**CLAIMS**

1. A sporocidal composition comprising a laccase or a compound exhibiting laccase activity, a source of oxygen, a source of iodide ions and an enhancing agent.
- 5 2. The composition of claim 1, wherein the source of iodide ions is one or more salts of iodide.
3. The composition of claim 1, which further comprises a surfactant.
- 10 4. An enzymatic method of killing or inactivating spores, comprising contacting the spores with a laccase or a compound exhibiting laccase activity, a source of oxygen, a source of iodide ions and an enhancing agent.
5. The method of claim 4, wherein the source of iodide ions is one or more salts of iodide.
- 15 6. The method of claim 4, which further comprises contacting the spores with a surfactant.
7. The method of any of claims 4-6, wherein the spores are located on a surface.
- 20 8. The method of claim 7, wherein the surface is a textile surface.
9. The method of claim 7, wherein the surface is a surface of laboratory or process equipment.
10. A method of decontaminating a location, which has been exposed to spores, comprising
- 25 contacting the spores with a laccase or a compound exhibiting laccase activity, a source of oxygen, a source of iodide ions and an enhancing agent.
11. The method of claim 10, wherein the source of iodide ions is one or more salts of iodide.
- 30 12. The method of claim 10, which further comprises contacting the spores with a surfactant.
13. A container comprising the composition of any of claims 1-3, wherein the components of the composition are packaged in one or more compartments or layers.
- 35 14. A ready-to-use sporocidal formulation comprising the composition of any of claims 1-3.

**15. Use of a laccase for killing spores.**